IN THE CLAIMS

Please amend the claims as follows:

- 1. (Currently Amended) A sound reproduction system comprising a digital audio signal input—(1), a digital audio signal processor (2, DSP)—and a digital audio signal output, (1)—wherein the digital signal processor (2, DSP)—comprises a high—high—pass (HP) filter (21)—with—having a pass frequency (f) of—between a first and a second frequency, a compressing amplifier (22)—for compression and amplification of a signal, at least—said amplification being performed after HP filtering, and a clipper for clipping the HP filtered, compressed and amplified signal above a clipping level, wherein the sound reproduction system further comprises a measuring device for measuring background noise, and an adaptor for adapting one or more parameters (f, order) of the high-pass filter in dependence on the measured background noise.
- 2. (Currently Amended) A—The sound reproduction system as claimed in claim 1, wherein the pass frequency (f) is a frequency between 300 Hz and 2 kHz.
- 3. (Currently Amended) A—The sound reproduction system as claimed in claim 1, wherein the high-pass filter is a first order or second order filter.
- 4. (Cancelled).

- 5. (Currently Amended) A—The sound reproduction system as claimed in claim 41, wherein the pass frequency is adaptable between 50 and 2 kHz.
- 6. (Currently Amended) A—The sound reproduction system as claimed in claim 1, wherein the compressing amplifier is arranged not to amplify a signal having a signal strength below a threshold value.
- 7. (Currently Amended) A sound reproduction system comprising a digital audio signal input, a digital audio signal processor and a digital audio signal output, wherein the digital signal processor comprises a high-pass (HP) filter having a pass frequency (f) between a first and a second frequency, a compressing amplifier for compression and amplification of a signal, at least said amplification being performed after HP filtering, and a clipper for clipping the HP filtered, compressed and amplified signal above a clipping levelas claimed in claim 1, wherein the device sound reproduction system further comprises a measuring device 130 for measuring background noise, and an adaptor 131 for adapting one or more parameters for of the compressing amplifier (22) in dependence on the measured background noise.
- 8. (Currently Amended) A—The sound reproduction system as claimed in claim 1, wherein the digital audio processor <u>further</u>

comprises a low-pass filter (23)—for filtering the signal provided by the compressing amplifier and for providing an output signal, the pass frequency of the low-pass filter (f') lying in the range 2 kHz-Fs/2, where Fs is the-a_sampling frequency.

- 9. (Currently Amended) A sound reproduction system comprising a digital audio signal input, a digital audio signal processor and a digital audio signal output, wherein the digital signal processor comprises a high-pass (HP) filter having a pass frequency (f) between a first and a second frequency, a compressing amplifier for compression and amplification of a signal, at least said amplification being performed after HP filtering, and a clipper for clipping the HP filtered, compressed and amplified signal above a clipping levelas claimed in claim 8, wherein the device—sound reproduction system further comprises a measuring device 130—for measuring background noise, and an adaptor 131—for adapting one or more parameters (f") for of the low—low-pass filter in dependence on the measured background noise.
- 10. (Currently Amended) A—The sound reproduction system as claimed in claim 9, wherein the sound reproduction system further comprises a—means for activation and/or setting of—the frequency dependence of the low—low—pass filter in dependence on the amplification in the compressing amplifier.

- 11. (Currently Amended) A—The sound reproduction system as claimed in any one of the claims 41, 7 or 9, wherein the one or more of the said parameters is a non-linear function of the measured noise level.
- 12. (Currently Amended) A—The sound reproduction system as claimed in claim 1, wherein the sound reproduction system comprises the high high-pass filter being followed by an AGC followed by a limiter/clipper.
- 13. (Currently Amended) A—The sound reproduction system as claimed in claim 1, wherein the sound reproduction system further comprises an automatic volume leveler preceded, or preferably, followed by the high-pass filter, providing a leveled signal, followed by a gain and a clipper.

measuring a background noise level; and

determining the cut-off frequency (f) in dependence on the

measured background noise level (S).

- 15. (Currently Amended) A—The method as claimed in claim 1314, wherein the cut-off frequency is between 300 Hz and 2 kHz.
- 16. (Cancelled).
- 17. (Currently Amended) A—The method as claimed in claim 1614, wherein the cut-off frequency is determined by a non-linear function of the noise level (S).
- 18. (Currently Amended) A-The method as claimed in claim 1614, wherein the cut-off frequency ranges between 50 Hz and 2 kHz.
- 19. (Currently Amended) A—The method as claimed in claim 1314, wherein said method further comprises, after compression—said amplifying and compressing step and said clipping step, attenuating frequency components of the resulting digital signal below a cut-cut-off frequency f' between 2 and 4 kHz—are attenuated.
- 20. (Currently Amended) A—The method as claimed in claim 19, wherein the method further comprises the step of:

_____a noise level is measured and determining the cut-off frequency (f")—is determined in dependence on the measured background noise level (S).

- 21. (Currently Amended) A—The method as claimed in claim 20, wherein the cut-off frequency (f") is determined by a non-linear function of the noise level (S).
- 22. (Cancelled).
- 23. (Currently Amended) Computer A computer-readable medium having stored thereon a computer program comprising program code means for performing a method as claimed in any one of claims 13 14, 15 and 17 to 22 21 when said program is run on a computer.
- 24. (Cancelled).